

LISTING OF CLAIMS

The listing of claims provided below replaces all prior versions, and listings, of claims in the application.

- 5 1. (Currently Amended) An electrostatic chuck, comprising:

 a metal base plate;

 a ~~disc-shaped~~ ceramic-layer disc having a predetermined thickness adhesively
bonded to said metal base plate;

 a ~~planner~~ planar electrode positioned in the middle of said ceramic disc ~~layer in~~
10 ~~the middle thereof in its~~ relative to a thickness direction of said ceramic disc; and

 a cooling gas channel is formed on a top surface of said ceramic disc ~~layer~~ over
said electrode and within an outer peripheral edge of said electrode.
2. (Currently Amended) ~~The~~ An electrostatic chuck according to claim 1,
15 wherein said ~~planner~~ planar electrode extends beyond said cooling gas channel.
3. (Currently Amended) An electrostatic chuck according to claim 1,
wherein said cooling gas channel comprises a ring shape along an outer peripheral edge
of said ceramic disc ~~layer~~, said chuck further comprising gas feed orifices located in a
20 plurality of positions at a bottom portion of said gas cooling channel and gas feed orifices
located in a plurality of positions on a circumference on a surface of said ceramic disc
~~layer~~ in the center side of the chuck.
4. (Currently Amended) An electrostatic chuck according to claim 1,
25 wherein said ~~planner~~ planar electrode ~~comprises~~ includes a first electrode and a second
electrode,

said first electrode ~~comprising~~ including,

a disc portion arranged in the center of said ceramic layer₁ and

a first extending portion extending from a part of the disc portion toward the outer peripheral edge of said ceramic layer₁,

5 said second electrode ~~comprising~~ including,

a second extending portion arranged opposite to said first extending portion ~~over~~
relative to said disc portion of said first electrode ~~and arranged in lacking portions of the~~
~~plurality of said first C-shaped ring portions of said first electrode₁ and~~

a circular ring portion connected to an outer edge of said second extending portion

10 so as to form the ~~outermost~~ outer peripheral edge portion of said second electrode.

5. (Currently Amended) An electrostatic chuck according to claim 4,
wherein said first electrode further ~~comprises~~ includes a plurality of first C-shaped ring
portions at predetermined intervals so as to have different diameters, the first C-shaped
15 ring portions extending in C shapes ~~in~~ from both sides of said first extending portion
~~surrounding around~~ said disc portion.

6. (Currently Amended) An electrostatic chuck according to claim ~~4~~ 5,
wherein said second electrode further ~~comprises~~ includes a plurality of second C-shaped
20 ring portions at predetermined intervals so as to have different diameters, the second C-
shaped ring portions extending in C shapes ~~in~~ from both sides of said second extending
portion and being engaged with ~~the~~ said plurality of ~~said~~ first C-shaped ring portions of
said first electrode.

25 7. (Currently Amended) A method for manufacturing an electrostatic chuck,
~~comprising the steps of:~~

preparing a first disc-shaped ceramic material compact having a half of a thickness of a completed ceramic layer;

forming an electrode on a surface of said first ceramic material compact;

preparing a second disc-shaped ceramic material compact having a half of a thickness of the completed ceramic layer and having a cooling gas channel on its surface ~~within~~ in a location overlying said electrode;

placing said second ceramic material compact on said first ceramic material compact so as to form a laminate ~~and~~;

firing the entire laminate to form the completed ~~complete~~ a ceramic layer; and

10 bonding the completed ceramic layer to a metal base plate by means of an adhesive layer.

8. (Currently Amended) The method ~~Method~~ of claim 6, wherein said adhesive layer is flexible.

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